

ONLINE CERTIFICATE COURSE PROMOTED BY CSC ACADEMY CENTERS

Online Course: Sustainable Agriculture and Farming System

Summary

Course Type:	Certificate	
Duration:	3 Months	
Category:	Management	
Credit Points:	2	
Level:	Undergraduate/Postgraduate	
Eligibility:	Minimum 10 th Std Pass or ITI or a Polytechnic Diploma Holder or Above	
Fees:	Rs. 1250/- (Rs. 500 Registration Fees and Rs. 1000 Course Fees)	

Admission Batch for Certification Courses	Admissions in Month	All Assessments Completion through LMS
March	1st Mar, April, 30th May	July
June	1st June, July, 30th Aug	Oct
Sept	1st Sept, Oct, 30th Nov	Jan
Dec	1st Dec, Jan, 28th Feb	April

Course Layout

Chapter 1 : Sustainable Agriculture

Current concepts - Definition - Goals and elements of Sustainable Agriculture - Problems and its impact on agriculture - Indicators of sustainability - current status of sustainable agriculture in India.

Chapter 2: Modern agriculture in relation to sustainable agriculture. Introduction -

Modern agronomic techniques for sustainable agriculture

Chapter 3: Ecological balance and sustainability of agricultural resources

Introduction - Factors affecting Ecological balance and sustainability of agricultural resources - Soil related problems: soil degradation - deforestation - accelerated soil erosion - siltation of reservoirs etc. - Causes and extent of soil problems in India and ameliorative measures.

Chapter 4: Management of natural resources

Introduction - Land - water - irrigation problems - Impact on High External Input Agriculture (HEIA) - Low External Input Agriculture (LEIA) and Low External Inputs for Sustainable Agriculture (LEISA) - vegetative cover - present scenario and management practices

Chapter 5: Environmental pollution

Introduction – greenhouse effect and - potential effects on agriculture – depletion of ozone layer, methane - emissions from rice fields and mitigation options

Chapter 6: Farming Systems

Concepts - Definition - Principles and Components - system and systems approach, cropping systems and related terminology

Chapter 7: Study of allied enterprises

Significance of integrating crop and livestock - Dairying and sheep and goat rearing: breeds housing, feed and fodder requirements - biogas plant - Poultry farming: breeds housing feed and fodder requirements

Chapter 7: Chemical Fertilizers and Pollution Control Measures

introduction – nitrate pollution in soil and ground water and eutrophication – management factors to reduce fertilizer pollution

Chapter 8: Organic Farming

Concepts, Definition, History, Principles of organic farming - Relevance to modern agriculture and components of organic farming - Integrated nutrient management - merits and demerits of Organic farming

Chapter 9: Integrated Farming System

Components and advantages of Integrated Farming System - IFS models for wetland, irrigated dry land and dry land conditions

Chapter 10: Biodiversity

Importance - agricultural intensification and biodiversity - adverse impacts of genetic erosion conservation of natural resources - Protocols for the conservations of biodiversity

Books and References

- Sustainable Agriculture by Ramesh Umrani and C.K. Jain
- Farming System and Sustainable Agriculture by S.R. Reddy

CRITERIA TO GET A CERTIFICATE

- Continuous Evaluation 25% weightage, Students need to complete 2 Assignments (MCQ Type) per Course through LMS
- Exam Score = 75% Weightage, Students to Attempt the Assessment through LMS (MCQ Type)
- Passing Criteria 40%

Only the e-certificate will be made available. Hard copies will not be dispatched. Thanks for your interest in our online courses and certification. Happy Learning.